

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	134545	((amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier) same (feedback feedback "feed back"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 14:15
S2	459572	(resistance resistor) and (capacitance capacitor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 14:16
S3	62332	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 14:27
S4	1507	360/67.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 14:27
S5	214	S3 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 16:11
S8	14460	(hpf high-pass "high pass") same (amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:47
S9	302224	(read\$3 reproduc\$3) near5 (circuit channel amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:41
S10	2787	S8 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:41

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9/28/06

## EAST Search History

S11	105946	"360"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:41
S12	383	S10 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:41
S13	1509	360/67.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:10
S14	33	S10 and S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:42
S15	2173	(hpF high-pass "high pass") same (amp amplifier opamp op-amp preamplifier preamp pre-amplifier) same (feedback feedback "fed back")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:48
S16	436	S9 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:48
S17	48	S11 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:54
S18	160422	(vary\$3 variable) near5 (resistance resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 09:57

## EAST Search History

S19	526	S15 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:55
S20	138	S15 and S18 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:55
S21	3697	(vary\$3 variable) near5 (resistance resistor) near5 (feedback feedback "fed back")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 09:57
S23	8058	(vary\$3 variable control adjust\$3) near5.(resistance resistor) near5 (feedback feedback "fed back")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:09
S24	168	S15 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 09:58
S25	37	S9 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 09:58
S26	48057	(vary\$3 variable control adjust\$3) near5 (gain amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier) same (feedback feedback "fed back")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:10
S27	1384	360/46.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:10

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S28	2583	S13 or S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:10
S29	246	S26 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 16:13
S30	2	"6580579".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 07:36
S31	532	330/282.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 07:43
S32	2173	(hpf high-pass "high pass") same (amp amplifier opamp op-amp preamplifier preamp pre-amplifier) same (feedback feedback "fed back")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 07:43
S33	302224	(read\$3 reproduces\$3) near5(circuit channel amp amplifier opamp op-amp preamp preamplifier preamp pre-amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 07:43
S34	7	S31 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 08:03
S35	16	("4535233") or ("4564818") or ("4724315") or ("4764732") or ("4772859") or ("4917402") or ("5010588") or ("5345073") or ("5382920") or ("5532471") or ("5646573") or ("6037841") or ("6057738") or ("6084478") or ("6114913") or ("6122131")).PN.	USPAT	OR	OFF	2006/04/14 12:49

## EAST Search History

S37	8406	(resistor near5 (network circuit) near5 (shunt\$4 parallel)) same (vary\$4 variable varied)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 15:21
S38	3071	resistor near5 (network circuit) near5 (shunt\$4 parallel) same (vary\$4 variable varied) same (switch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 15:21
S39	158	resistor near5 (network circuit) near5 (shunt\$4 parallel) near5 (vary\$4 variable varied) near5 (switch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 15:26
S40	107066	"360"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/07 15:26
S41	1	S39 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:16
S42	373	338/200.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:17
S43	227	338/200.ccls.	USPAT	OR	ON	2006/08/08 07:17
S44	158	resistor near5 (network circuit) near5 (shunt\$4 parallel) near5 (vary\$4 variable varied) near5 (switch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:18
S45	0	S43 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:18

## EAST Search History

S46	173206	(resistor resistance) near5 (vary\$4 variable varied)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:19
S47	65	S43 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:25
S48	6401	((resistance resistor) near5 (various different multiple plural\$5) near5 (parallel shunt\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:26
S49	3091	((resistance resistor) near5 (various different multiple plural\$5) near5 (parallel shunt\$4)) same (chang\$3 vary\$3 switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:27
S50	2273	((resistance resistor) near5 (various different multiple plural\$5) near5 (parallel shunt\$4)) same (chang\$3 vary\$3 switch\$3) same (circuit network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:28
S51	1	S43 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:27
S52	2	("5523721"   "6198349").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 07:28
S53	79	((resistance resistor) near5 (various different multiple plural\$5) near5 (parallel shunt\$4)) same (chang\$3 vary\$3 switch\$3) same (ladder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:43

## EAST Search History

S54	2	"6545620".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 07:43
S55	309595	(read\$3 reproduc\$3) near5 (circuit channel amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S56	107110	"360"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S57	2212	(hpf high-pass "high pass") same (amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier) same (feedback feedback "fed back")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S58	446	S55 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S59	49	S56 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S60	14764	(hpf high-pass "high pass") same (amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S61	2839	S60 and S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40

## EAST Search History

S62	1524	360/67.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S63	35	S61 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/08 10:40
S64	312649	(read\$3 reproduc\$3) near5 (circuit channel amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:14
S65	107597	"360"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:14
S66	2226	(hpF high-pass "high pass") same (amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier) same (feedback feedback "fed back")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:14
S67	449	S64 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:14
S68	49	S65 and S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:14
S69	14881	(hpF high-pass "high pass") same (amp amplifier opamp op-amp preamp preamplifier pre-amp pre-amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:14

## EAST Search History

S70	2860	S69 and S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:14
S71	1528	360/67.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 12:16
S72	35	S70 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 14:35
S73	21735	(resistance resistor) and ((read\$3 reproduc\$4 mr magneto-resist\$4 magnetoresist\$4) near5 (head sensor element))	US-PGPUB	OR	ON	2006/09/27 14:41
S74	8924	S73 and (op-amp opamp amp amplifier differential)	US-PGPUB	OR	ON	2006/09/27 14:38
S75	4077	S73 and (op-amp opamp amp amplifier differential) and (capacitance capacitor)	US-PGPUB	OR	ON	2006/09/27 14:40
S79	791	S73 and ((op-amp opamp amp amplifier) near5 differential) and (capacitance capacitor)	US-PGPUB	OR	ON	2006/09/27 14:41
S80	1152	((resistance resistor) and ((read\$3 reproduc\$4 mr magneto-resist\$4 magnetoresist\$4) near5 (head sensor element))).clm.	US-PGPUB	OR	ON	2006/09/27 15:02
S81	1164	(((op-amp opamp amp amplifier) near5 differential) and (capacitance capacitor)).clm.	US-PGPUB	OR	ON	2006/09/27 15:03
S82	21	S80 and S81	US-PGPUB	OR	ON	2006/09/27 14:41
S83	32369	((resistance resistor) and ((input output coupl\$3 connect\$4))).clm.	US-PGPUB	OR	ON	2006/09/27 15:02
S84	565	S81 and S83	US-PGPUB	OR	ON	2006/09/27 15:02
S85	15865	((resistance resistor) near5 ((communicat\$4 input output coupl\$3 connect\$4 shunt\$4 series))).clm.	US-PGPUB	OR	ON	2006/09/27 15:04

## EAST Search History

S86	921	((op-amp opamp amp amplifier) near5 differential) and ((capacitance capacitor) near5 (communicat\$4 input output coupl\$3 connect\$4 shunt\$4 series))).clm.	US-PGPUB	OR	ON	2006/09/27 15:05
S88	401	S86 and S85	US-PGPUB	OR	ON	2006/09/27 15:04
S89	276	((resistance resistor) near5 ((communicat\$4 input output coupl\$3 connect\$4 shunt\$4 series) near5 (op-amp opamp amp amplifier) near5 differential)).clm.	US-PGPUB	OR	ON	2006/09/27 15:15
S90	17868	((capacitance capacitor) near5 (communicat\$4 input output coupl\$3 connect\$4 shunt\$4 series))).clm.	US-PGPUB	OR	ON	2006/09/27 15:05
S91	95	S89 and S90	US-PGPUB	OR	ON	2006/09/27 15:05
S93	136	((resistance resistor) near5 ((communicat\$4 input output coupl\$3 connect\$4 shunt\$4 series) near5 (op-amp opamp amp amplifier) near5 differential) and (great\$3 less\$3 less big\$4 high\$4 low\$4)).clm.	US-PGPUB	OR	ON	2006/09/27 15:16
S94	136	S93	US-PGPUB	OR	ON	2006/09/27 15:16
S95	52	S91 and S93	US-PGPUB	OR	ON	2006/09/27 15:16